E.D. FORM 287
Dec. 1, 1941

COMPLETION REPORT

FUEL STORAGE FACILITIES - COAL OR OIL

POST: NEW RIVER ORDNANCE PLANT

DATE JANUARY 31, 1942

OUTLINE OF COAL AND OIL STORAGE AT POST

Describe principal storage area or areas. Make sketch of these in relation to building groups. Give dimensions & capacity of storage area generally considered active. Give dimensions and indicate on sketch, with dotted line or different color, adjacent property to which the storage area might be expanded. In tonnage determinations keep in mind angle of repose and safe storing heights. Give sizes and capacities for oil tanks.

BULK STORAGE AREAS. Do not include small bins at individual plants such as temporary barracks.

Bldg. ~~Area~~ Number	Average Plan Dimensions	Sq. Ft. of Area	Trestle Height	*Tons	Approximate Days Supply Pres.	Approximate Days Supply Expanded	Location	Kind of Coal	Remarks: Open or Covered Stor., Conc. Floor, etc.
211	210.0'x53.0'	11,300	17.0'	6,000	270	365	North of Bldg. #211	Bituminous	Open storage with earth floor.

Capacity can be expanded to 8,000 Tons.

*Base calculations on 50 lbs. per cubic foot and 2,000 lbs. per net ton

Give the average capacity of small bins in connection with individual buildings, and the number of days this supply would last. 10 Small bins have an additional capacity of approximately 200 Tons This supply would last approximately 20 days.

Total Cost of all Facilities Included in Bldg. #211 Tons 6,200 Days 290

$138,131.00

CAPACITY IN DAYS	Normal	Expanded
Give approximate estimate of capacity of principal storage in days supply as normally operated	270 Days	
" " " " " " " " " " " " " " expanded in sketch		365 Days
" " " " " " individual bins " " " " normally operated	20 Days	Days
Total days supply on hand as operated	290 Days	
" " " " " " if expanded		385 Days

OIL HANDLING MACHINERY

Pumps, Lines, Tank, Trucks, etc.

No. of Units	Name of Manufacturer	Capacity	Equipment	Remarks
1	Viking		Pump	Fuel Oil
2	Virginia Bridge	40000	Gal. Tanks	Fuel Oil
1	Virginia Bridge	10000	Gal. Tank	Diesel Oil
1	Roanoke Iron	2,000	Gal. Tank	Diesel Oil
1	Virginia Bridge	10,000	Gal. Tank	Gasoline
1	Roanoke Iron	2,000	Gal. Tank	Gasoline
1	Mack	1,000	Gal. Tank Truck	Fuel Oil
2	Tokheim		Service Pump	Gasoline
2	Tokheim		Service Pump	Diesel Fuel

COAL HANDLING MACHINERY

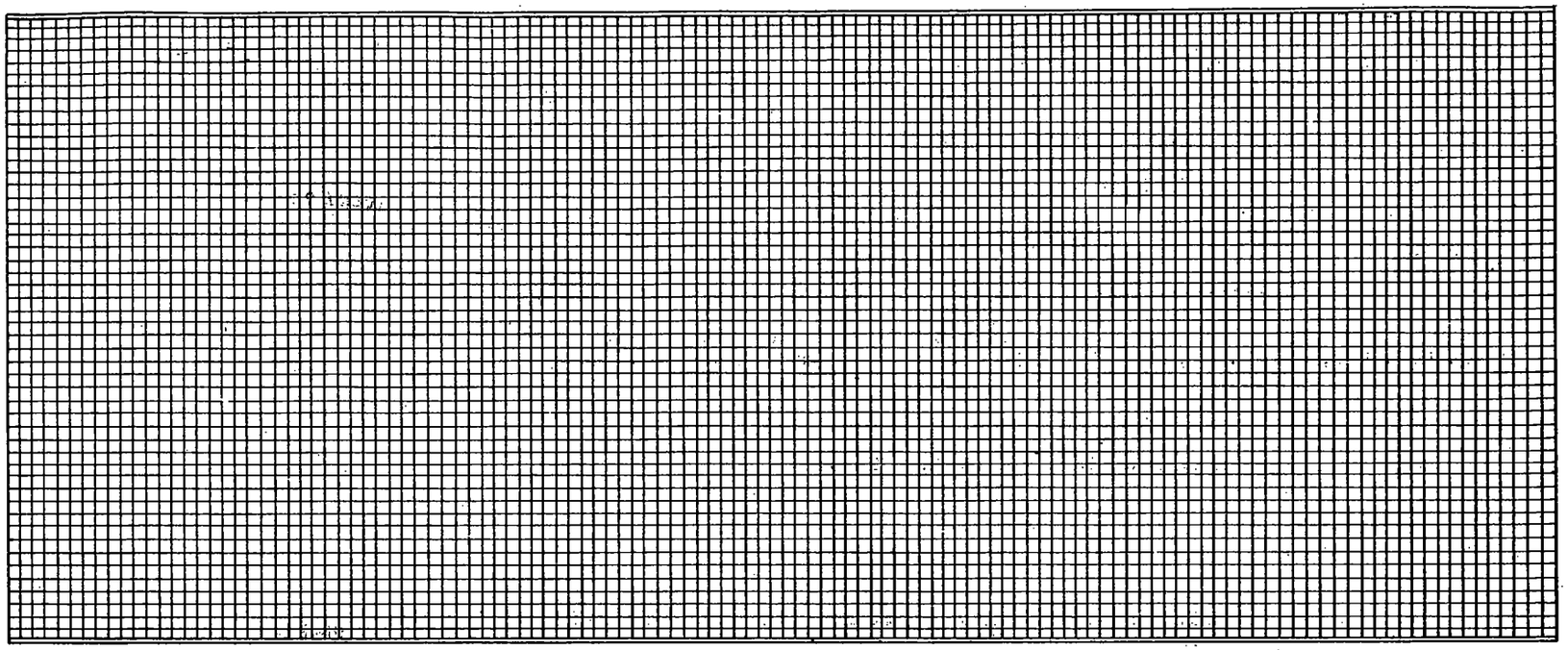
Conveyors, Loaders, Coal Trucks, etc. Crane or Trestle

No. of Units	Name of Manufacturer	Capacity	Equipment	Remarks
1	Catepillar		Bull Dozer	
1	Link Belt		Crusher	
1	Link Belt		Elevator	
1	International	1½ T.	Truck	

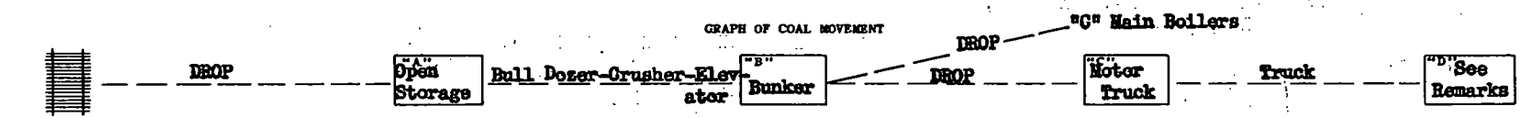
ORIGINAL (Red)

RG77 - Chief of Engineers
Entry 391-B - Construction Completion Reports (Formerly Classified) 1917 - 1943
Box 103 - New River Ordnance Plant
Folder 1 of 2

SKETCH OF CENTRAL PLANT



GRAPH OF COAL MOVEMENT



ON ABOVE GRAPH SHOW COMPLETE FUEL MOVEMENT WITHIN JURISDICTION OF POST

Indicate each time the coal is moved and each time it comes to rest from time it is delivered by the carrier until it is consumed in the boiler. The boxes A-B-C-D represent storage piles, bins, etc., where the coal comes to rest. The last one to the right that you use represents the boiler. The dotted lines between the boxes represent movement of coal.

Example: If coal is dropped from a car, standing on a track, directly into a Boiler House Bunker and then carried by conveyor to stokers in the boiler, mark Box "A" Central Plant Bunker, and Box "B" Boiler. On the dotted line between R.R.Siding and Box "A" mark 'drop', and between Boxes "A" and "B" 'conveyor' stoker. If coal is first placed in the Post main storage pile and trucked to the boiler house, mark Box "C" Boiler and note the additional steps.

Coal delivered by truck to Bldgs. 16,215, 301, 303, 304, 306, 307, 601, 701, 722.

REMARKS: Facilities provided for tank car delivery of gasoline, diesel fuel and fuel oil.
Gasoline and Diesel fuel gravity flow from car to underground storage Service Pumps for dispensing.
Fuel Oil pumped from car to elevated Storage Tanks. Gravity flow to tank truck for distribution to
Buildings 401, 421-A, 441, 461, 501, 521, 569.

SUBMITTED BY: HERCULES POWDER COMPANY

DATE:

APPROVED BY: Charles F. Walborn — CHARLES F. WALBORN, Capt., Corps of Engineers, Area Engineer

DATE: May 19, 1942

ORIGINAL (Red)